## SEQUENCE LISTING

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            Stratton, Charles W.
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H
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Asp Thr Ala Lys Lys Lys Gln Asp Arg Ala Glu
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    Gly Thr Gly Lys Arg Thr Asp Asp Gly Thr
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          <213> Mouse
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          <400> 37
    Gly Ser Gly Gly Lys Gly Lys Ser Gly Glu
5
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Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys 35 40 45

Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Arg Met Gly Tyr 50 55 60

Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Gln Thr Asp Val Asn Lys 80

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Ala Pro Ser Thr 100

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1 10 15

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Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys 35 40 45

Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr 50 55 60

Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys 65 70 75 80

Glu Phe Gln Met Gly Ala Lys Pro Thr Thr Thr Thr Gly Asn Ala Ala 85 90 95

Ala Pro Ser Thr 100

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<213> Chlamydia trachomatis

<400> 47

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Ala Ser Ser Leu Gln Ala Leu Pro Val Gly Asn Pro Ala Glu Pro Ser

Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys

35 40 45
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Arg Met Gly Tyr

Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Arg Met Gly Tyl
50 55 60

Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Glu Thr Asp Val Asn Lys 65 70 75 80 Glu Phe His Met Gly Ala Lys Pro Thr Thr Asp Thr Gly Asn Ser Ala

Ala Pro Leu Thr

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Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
                                         75
                    70
Glu Phe His Met Gly Asp Lys Pro Thr Ser Thr Thr Gly Asn Ala Thr
                                     90
Ala Pro Thr Thr
            100
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      <213> Chlamydia trachomatis
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Met Lys Lys Leu Leu Lys Ser Val Leu Val Phe Ala Ala Leu Ser Ser
Ala Ser Ser Leu Gln Ala Leu Pro Val Gly Asn Pro Ala Glu Pro Ser
                                 25
Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
                             40
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
                     70
Glu Phe His Met Gly Asp Lys Pro Thr Ala Thr Thr Gly Asn Ala Ala
                                     90
 Ala Pro Ser Thr
             100
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       <211> 101
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       <213> Chlamydia trachomatis
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 Ala Ser Ser Leu Gln Ala Leu Pro Val Gly Asn Pro Ala Glu Pro Ser
                                 25
 Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
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Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Ile Met Gly Tyr
                        55
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
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Ser Thr Leu Ser Lys
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Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
                            40
Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Val Met Gly Tyr
                         55
Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
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                                         75
Glu Phe Gln Met Gly Ala Ala Pro Thr Thr Ser Asp Val Ala Ala Gly
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Leu Gln Asn Asp Pro Thr Ile
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 Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys
 Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Arg Met Gly Tyr
                         55
 Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys
                                         75
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 Glu Phe Gln Met Gly Ala Ala Pro Thr Thr Arg Asp Val Ala Gly Leu
 Glu Lys Asp Pro Val Val
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> <210> 54 <211> 102 <212> PRT

> > 100

<400> 54

<213> Chlamydia trachomatis

Met Lys Lys Leu Leu Lys Ser Val Leu Val Phe Ala Ala Leu Ser Ser 10 Ala Ser Ser Leu Gln Ala Leu Pro Val Gly Asn Pro Ala Glu Pro Ser Leu Met Ile Asp Gly Ile Leu Trp Glu Gly Phe Gly Gly Asp Pro Cys Asp Pro Cys Thr Thr Trp Cys Asp Ala Ile Ser Met Val Met Gly Tyr 55 Tyr Gly Asp Phe Val Phe Asp Arg Val Leu Lys Thr Asp Val Asn Lys 75 Glu Phe Gln Met Gly Ala Glu Pro Thr Thr Ser Asp Thr Ala Gly Leu 90 Ser Asn Asp Pro Thr Thr

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Ala Pro Thr Pro
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      <213> Chlamydia pneumoniae
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Val Gly Ser Leu Gln Ala Leu Pro Val Gly Asn Pro Ala Ser Asp Ser
Leu Leu Ile Asp Gly Thr Ile Trp Glu Gly Ala Ala Gly Asp Pro Cys
Asp Pro Ala Thr Thr Trp Cys Asp Ala Ile Ser Leu Arg Ala Gly Phe
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Tyr Gly Asp Phe Val Tyr Asp Ile Val Leu Lys Val Asp Ala Pro Lys
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Thr Phe Ser Met Gly Ala Lys Pro Thr Thr Gly Asn Gly Ser Ala
Ala Ala Asn
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 Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
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             20
 Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Ser Gly Tyr Leu Lys Gly
                             40
 Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Asp Asn Glu Asn
 His Ala Thr Val Ser Asp Ser Lys Leu Val Pro Asn Met Ser Leu Asp
                                         75
 Gln Ser Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Ala
 Gly Ala Arg Ala
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                                      10
  Glu Met Phe Thr Asn Cys Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
                                  25
              20
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Phe Asp Val Phe Cys Thr Leu Gly Ala Ser Ser Gly Tyr Leu Lys Gly
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Gln
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Cys Thr Ala Arg Glu Asn Pro Ala Tyr Gly Arg His Met Gln Asp Ala
Glu Met Phe Thr Asn Cys Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
                                 25
Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Ser Gly Tyr Leu Lys Gly
                             40
Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Asp Asn Glu Asn
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Gln Lys Thr Val Lys Ala Glu Ser Val Pro Asn Met Ser Phe Asp Gln 75 Ser Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Val Gly

Ala Arg Ala Thr Lys Val Ser Asn Gly Thr Phe Val Pro Asn Met Ser 105

Leu Asp Gln Ser Val Val Glu Leu Tyr Thr Asp Thr Ala Phe Ala Trp 120 115

Ser Val Gly Ala Arg Ala

130

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<212> PRT

<213> Chlamydia trachomatis

<400> 60

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Ala Arg Ala

<400> 62

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 Asn
 Pro
 Ala
 Tyr
 Gly
 Lys
 His
 Met
 Gln
 Asp
 Ala
 Ala
 Tyr
 Thr
 Ala
 Leu
 Ile
 Asn
 Trp
 Asp
 Arg

 Glu
 Met
 Phe
 Thr
 Asn
 Cys
 Ala
 Tyr
 Thr
 Ala
 Leu
 Ile
 Asn
 Trp
 Asp
 Arg

 Asn
 Ser
 Val
 Phe
 Cys
 Thr
 Leu
 Gly
 Ala
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 Gly
 Asp
 Fyr
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 Asp
 Fyr
 F

Ala Arg Ala

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  Gly Ala Arg Ala
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  Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
                                   25
  Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Thr Gly Tyr Leu Lys Gly
                               40
  Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Thr Lys Thr Gln
  Ser Ser Gly Phe Asp Thr Ala Asn Ile Val Pro Asn Thr Ala Leu Asn
                                           75
                       70
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                                       90
   Gly Ala Arg Ala
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         <211> 100
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                                       10
   Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg
                                   25
   Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Thr Gly Tyr Leu Lys Gly
   Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Thr Lys
   Ser Ser Asp Phe Asn Thr Ala Lys Leu Val Pro Asn Ile Ala Leu Asn
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   Arg Ala Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Val
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   Gly Ala Arg Ala
               100
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          <213> Chlamydia trachomatis
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Asn Val Ala Arg Pro Asn Pro Ala Tyr Gly Lys His Met Gln Asp Ala Glu Met Phe Thr Asn Ala Ala Tyr Met Ala Leu Ile Asn Trp Asp Arg 25 Phe Asp Val Phe Cys Thr Leu Gly Ala Thr Thr Gly Tyr Leu Lys Gly Asn Ser Ala Ser Phe Asn Leu Val Gly Leu Phe Gly Thr Lys Thr Gln 55 Ser Thr Asn Phe Asn Thr Ala Lys Leu Val Pro Asn Thr Ala Leu Asn 75 Gln Ala Val Val Glu Leu Tyr Thr Asp Thr Thr Phe Ala Trp Ser Val 90 Gly Ala Arg Ala

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<210> 67 <211> 96 <212> PRT

<213> Chlamydia trachomatis

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> <210> 68 <211> 100 <212> PRT <213> Chlamydia pneumoniae

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Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Gln Glu Phe
Pro Leu Asp Leu Lys Ala Gly Thr Asp Gly Val Thr Gly Thr Lys Asp
Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
                                        75
                    70
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Ser Phe Asp Ala
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Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
            20
Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Leu
                            40
Pro Leu Asp Leu Thr Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
                        55
Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
                                         75
                    70
Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
Ser Phe Asp Ala
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Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
                                 25
Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Phe
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Pro Leu Asp Leu Thr Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
  Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
  Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
  Ser Phe Asp Ala
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   Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
                                   25
   Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Gln Glu Phe
   Pro Leu Ala Leu Ile Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
ΠJ
                           55
Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
                       70
                                            75
   Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
₫
   Ser Phe Asp Ala
               100
|
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   Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
   Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Phe
   Pro Leu Asp Leu Thr Ala Gly Thr Asp Ala Ala Thr Gly Thr Lys Asp
                            55
   Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
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    Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
    Ser Phe Asp Ala
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<213> Chlamydia trachomatis

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Ser Phe Asp Ala
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        <213> Chlamydia trachomatis
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  Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
  Ser Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Ala Glu Phe
  Pro Leu Asp Ile Thr Ala Gly Thr Glu Ala Ala Thr Gly Thr Lys Asp
  Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
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                       70
  Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Val
  Ser Phe Asp Ala
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   Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asp Ala
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   Ser Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Ala Glu Phe
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   Pro Leu Asp Ile Thr Ala Gly Thr Glu Ala Ala Thr Gly Thr Lys Asp
                                                60
   Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
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   Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Val
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   Ser Phe Asp Ala
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          <210> 79
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          <213> Chlamydia trachomatis
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    Ala Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Ala Ser Phe Gln Tyr
    Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Leu Cys Asn Ala
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Ala Glu Phe Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Gln Glu Phe
  Pro Leu Asn Ile Lys Ala Gly Thr Val Ser Ala Thr Asp Thr Lys Asp
  Ala Ser Ile Asp Tyr His Glu Trp Gln Ala Ser Leu Ala Leu Ser Tyr
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   Arg Leu Asn Met Phe Thr Pro Tyr Ile Gly Val Lys Trp Ser Arg Ala
   Ser Phe Asp Ala
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         <213> Chlamydia pneumoniae
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   Gly Leu Trp Glu Cys Gly Cys Ala Thr Leu Gly Glu Ser Phe Gln Tyr
   Ala Gln Ser Lys Pro Lys Val Glu Glu Leu Asn Val Ile Cys Asn Val
                                    25
               20
   Ser Gln Phe Ser Val Asn Lys Pro Lys Gly Tyr Lys Gly Val Ala Phe
                                                    45
   Pro Leu Pro Thr Asp Ala Gly Val Ala Thr Ala Thr Gly Thr Lys Ser
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   Ala Thr Ile Asn Tyr His Glu Trp Gln Val Gly Ala Ser Leu Ser Tyr
                       70
   Arg Leu Asn Ser Leu Val Pro Tyr Ile Gly Val Gln Trp Ser Arg Ala
H
N
   Thr Phe Asp Ala
          <210> 81
          <211> 94
          <212> PRT
          <213> Chlamydia trachomatis
          <400> 81
    Asp Thr Ile Arg Ile Ala Gln Pro Lys Ser Ala Thr Thr Val Phe Asp
    Val Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Gly Asp Val Lys Ala
    Ser Ala Glu Gly Gln Leu Gly Asp Thr Met Gln Ile Val Ser Leu Gln
    Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly Thr
    Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu
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    Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
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<211> 92 <212> PRT

<213> Chlamydia trachomatis

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 Ile Ala Gln Pro Lys Ser Ala Glu Thr Ile Phe Asp 1

 Val Thr Thr Leu Asn Pro Thr Ile Ala Gly Ala Gly Ala Gly Asp Val Lys Thr 20

 Ser Ala Glu Gly Gln Leu Gly Asp Thr Met Gln Ile Val Ser Leu Gln 35

 Leu Asn Met Lys Ser Arg Lys Cys Gly Ile Ala Val Gly Thr Thr Ile 50

 Val Asp Ala Asp Lys Tyr Ala Ile Thr Val Glu Thr Arg Leu Ile Asp 65

 Glu Arg Ala Ala Ala His Val Asn Ala Gln Phe Arg Phe 85

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<210> 86

<211> 95

<212> PRT

<213> Chlamydia trachomatis

<400> 86

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 Ile
 Arg
 Ile
 Ala
 Gln
 Pro
 Arg
 Leu
 Val
 Thr
 Pro
 Val
 Asp

 Ile
 Thr
 Thr
 Leu
 Asn
 Pro
 Thr
 Ile
 Ala
 Gly
 Ala
 Cys
 Asp
 Ser
 Lys
 Ala

 Gly
 Asn
 Thr
 Glu
 Gly
 Gln
 Ile
 Ser
 Asp
 Thr
 Met
 Gly
 Gln
 Ile
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 Thr
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 Ile
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 Ile
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 Asp
 Ile
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<210> 87

<211> 95

<212> PRT

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<400> 87

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 Arg
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 Ala
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 Asp

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 Thr
 Leu
 Asn
 Arg
 Thr
 Thr
 Ala
 Gly
 Lys
 Gly
 Ser
 Val
 Val
 Ser

 Ala
 Gly
 Thr
 Asp
 Asn
 Glu
 Leu
 Ala
 Asp
 Thr
 Met
 Gln
 Ile
 Val
 Ser
 Leu

 Gln
 Leu
 Asn
 Lys
 Ser
 Arg
 Lys
 Ser
 Cys
 Gly
 Ile
 Ala
 Val
 Gly

 50
 Thr
 Thr
 Ile
 Val
 Asp
 Ala
 Asp
 Lys
 Thr
 Ala
 Val
 Thr
 Val
 Gly
 Arg

 65
 Thr
 Thr
 Ala
 Ala
 Asp
 Lys
 Thr
 Ala
 Val
 Thr
 Ala
 Arg

 65
 Thr
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 Thr
 Ala<

Leu Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe

<210> 88

44.31

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<211> 94 <212> PRT <213> Chlamydia trachomatis

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> <210> 89 <211> 94 <212> PRT <213> Chlamydia trachomatis

<400> 89

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Asp Thr Ile Arg Ile Ala Gln Pro Lys Leu Ala Glu Ala Ile Leu Asp Val Thr Thr Leu Asn Pro Thr Ile Ala Gly Lys Gly Thr Val Val Ala Ser Gly Ser Asp Asn Asp Leu Ala Asp Thr Met Gln Ile Val Ser Leu Gln Leu Asn Lys Met Lys Ser Arg Lys Ser Cys Gly Ile Ala Val Gly Thr Thr Ile Val Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg 75 Leu Ile Asp Glu Arg Ala Ala His Val Asn Ala Gln Phe Arg

> <210> 90 <211> 95 <212> PRT <213> Chlamydia trachomatis

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Met Thr Trp Asn Pro Thr Ile Ser Gly Ser Gly Ile Asp Val Asp
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Thr Lys Ile Thr Asp Thr Leu Gln Ile Val Ser Leu Gln Leu Asn Lys
Met Lys Ser Arg Lys Ser Cys Leu Ile Ala Ile Gly Thr Thr Ile Val
                        55
Asp Ala Asp Lys Tyr Ala Val Thr Val Glu Thr Arg Leu Ile Asp Glu
                                        75
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Arg Ala Ala His Val Asn Ala Gln Phe Arg Phe
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      <400> 92
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Leu Thr Ala Trp Asn Pro Ser Leu Leu Gly Asn Ala Thr Ala Leu Ser
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Thr Thr Asp Ser Phe Ser Asp Phe Met Gln Ile Val Ser Cys Gln Ile
                            40
Asn Lys Phe Lys Ser Arg Lys Ala Cys Val Thr Ala Val Ala Thr Leu
                                             60
                        55
Ile Val Asp Ala Asp Lys Trp Ser Leu Thr Ala Glu Ala Arg Leu Asn
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Asp Glu Arg Ala Ala His Ser Gly Ala Gln Phe Arg Phe
      <210> 93
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Cys Thr Gly Ser Ala Ala Ala Asn Tyr Thr Thr Ala Val Asp Arg Pro
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Asn
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<210> 94 <211> 18 <212> PRT <213> Chlamydia trachomatis

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Cys Thr Gly Asp Ala Asp Leu Thr Thr Ala Pro Thr Pro Ala Ser Arg
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  Glu Asn
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   Arg Glu Asn
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         <213> Chlamydia psitacci
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   Cys Ala Ser Gly Thr Ala Ser Asn Thr Thr Val Ala Ala Asp Arg Ser
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g 
   Asn
₫
-
         <210> 97
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   Cys Phe Gly Val Lys Gly Thr Thr Val Asn Ala Asn Glu Leu Pro
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   Cys Phe Gly Arg Asp Glu Thr Ala Val Ala Ala Asp Asp Ile Pro
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          <211> 18
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    Cys Phe Gly Asp Asn Glu Asn His Ala Thr Val Ser Asp Ser Lys Leu
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    Val Pro
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    Cys Gln Ile Asn Lys Phe Lys Ser Arg Lys Ala Cys Gly
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          <211> 13
          <212> PRT
          <213> Chlamydia trachomatis
          <400> 102
    Cys Gln Ile Asn Lys Met Lys Ser Arg Phe Ala Cys Gly
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           <213> Chlamydia trachomatis
           <400> 103
     Cys Gln Leu Asn Lys Met Lys Ser Arg Lys Ala Cys Gly
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           <210> 104
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           <212> PRT
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     Cys Gln Ile Asn Lys Phe Lys Ser Arg Phe Ala Cys Gly
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            <213> Chlamydia pneumoniae
            <400> 105
     Arg Lys Lys Glu Arg Ser
            <210> 106
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   Ser Thr Glu Cys Asn Ser Gln Ser Pro Gln
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   Asn Pro Asn Leu His Tyr Trp Thr Thr Gln Asp Glu Gly
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         <213> Ebola virus
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   Ser Gly Gln Ser Pro Ala Arg Thr Ser Ser Asp Pro Gly Thr Asn Thr
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    Thr Thr Glu Asp His Lys
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    Thr Gly Gly Arg Arg Thr Arg Arg Glu
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    Arg Asp Arg Phe Lys Arg Thr Ser Phe Phe
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                   10
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<210> 118

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<211> 15 <212> PRT <213> Ebola virus

<400> 118 Thr His His Gln Asp Thr Gly Glu Glu Ser Ala Ser Ser Gly Lys 10